

FIG. 1

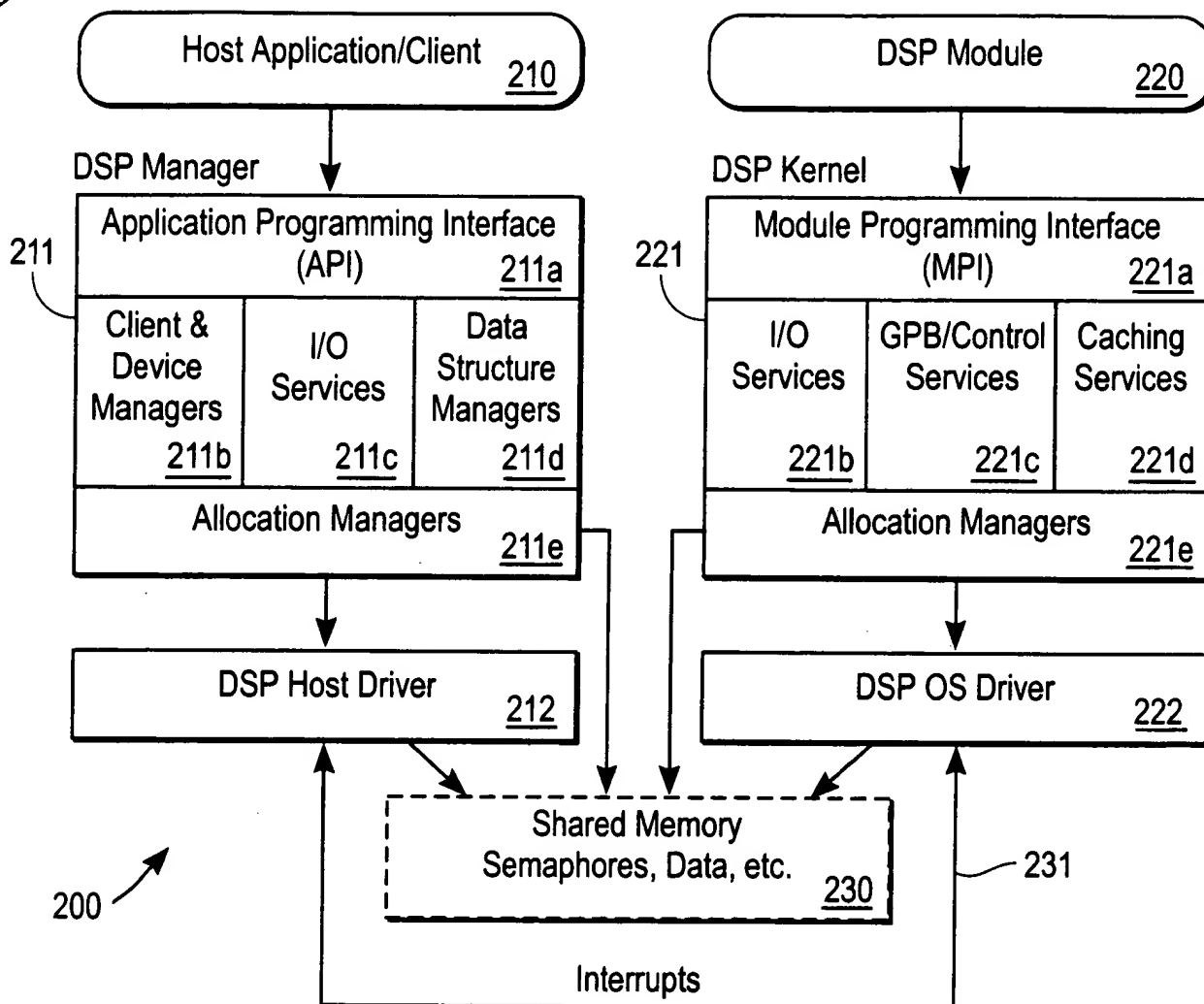
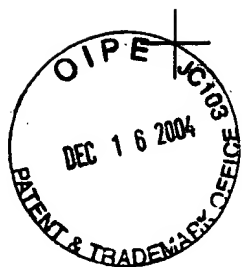


FIG. 2

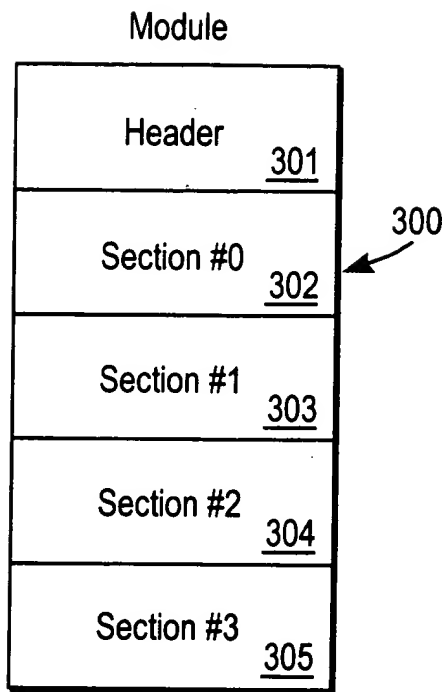


FIG. 3



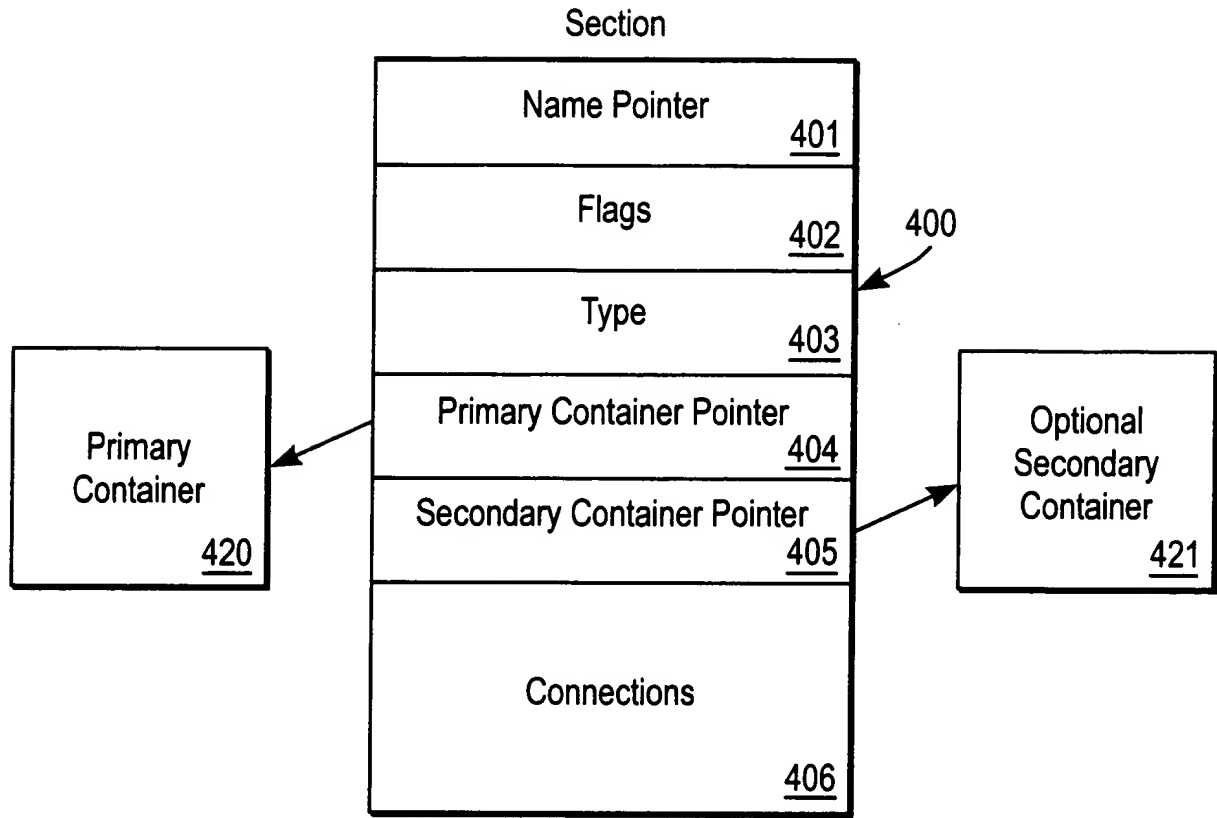


FIG. 4



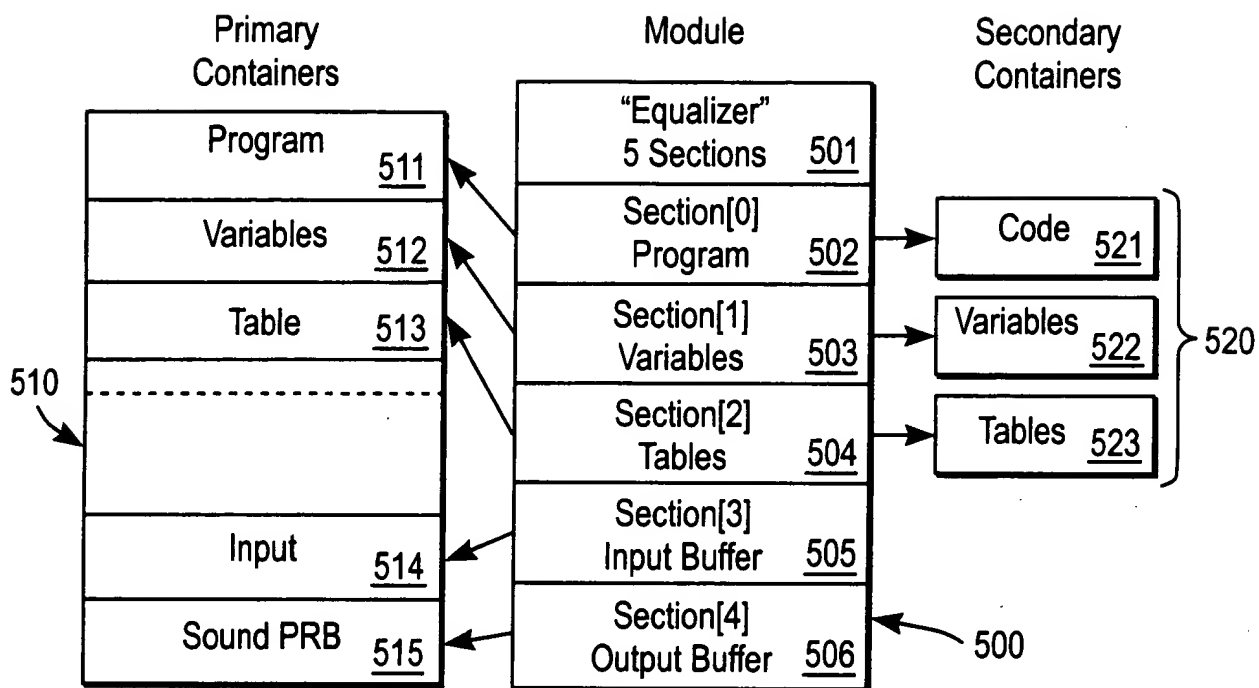


FIG. 5



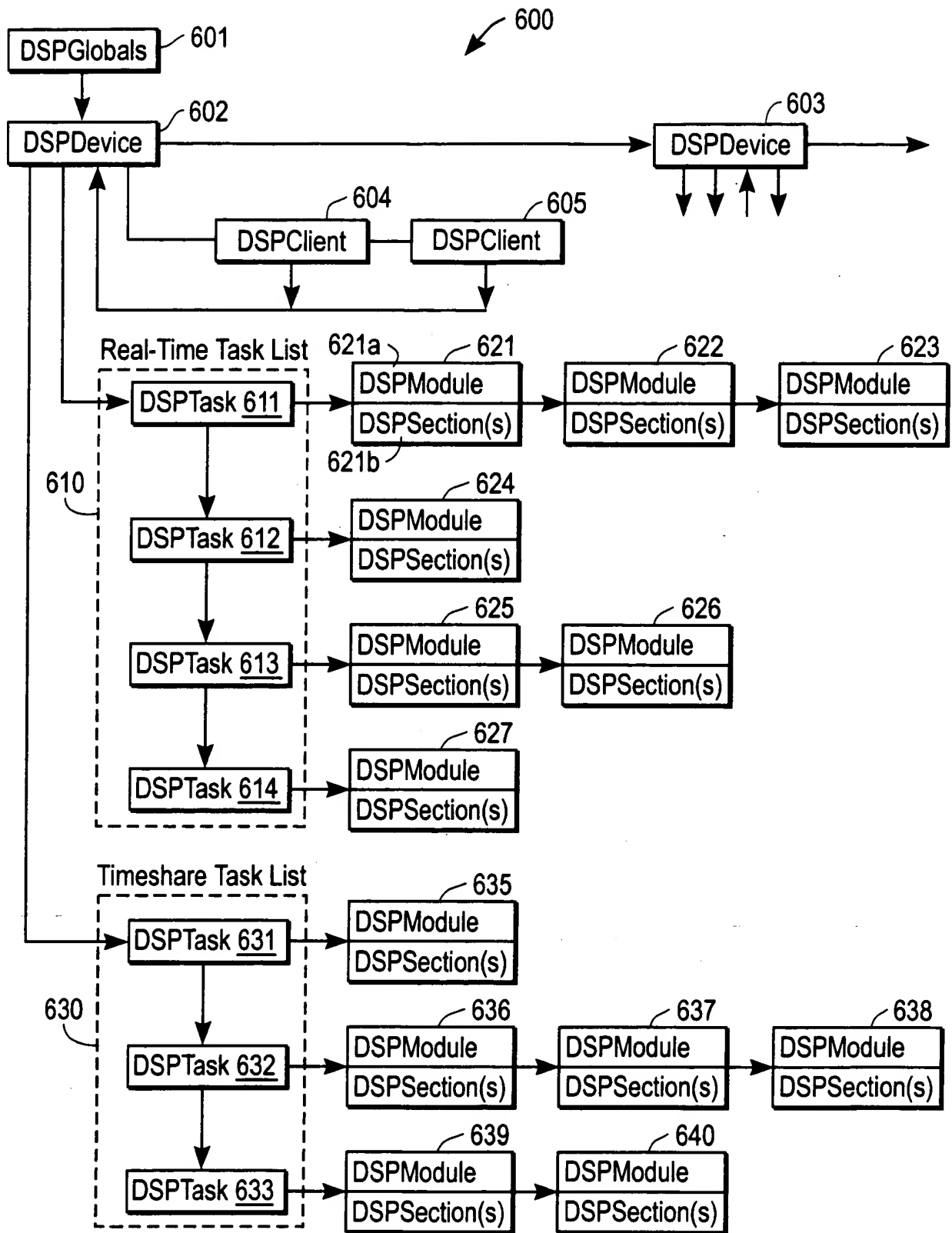


FIG. 6

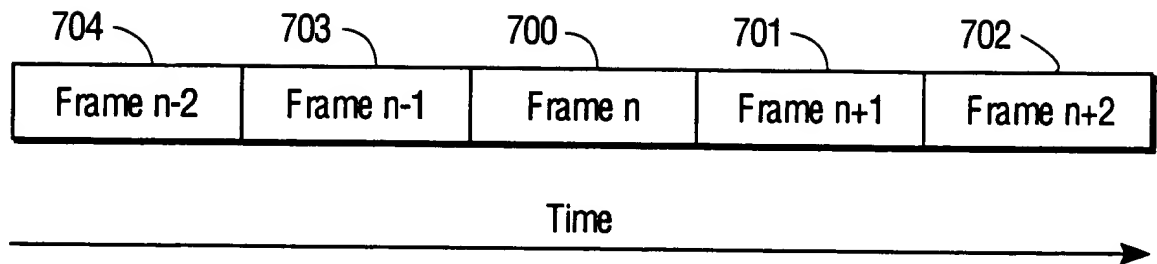


FIG. 7a

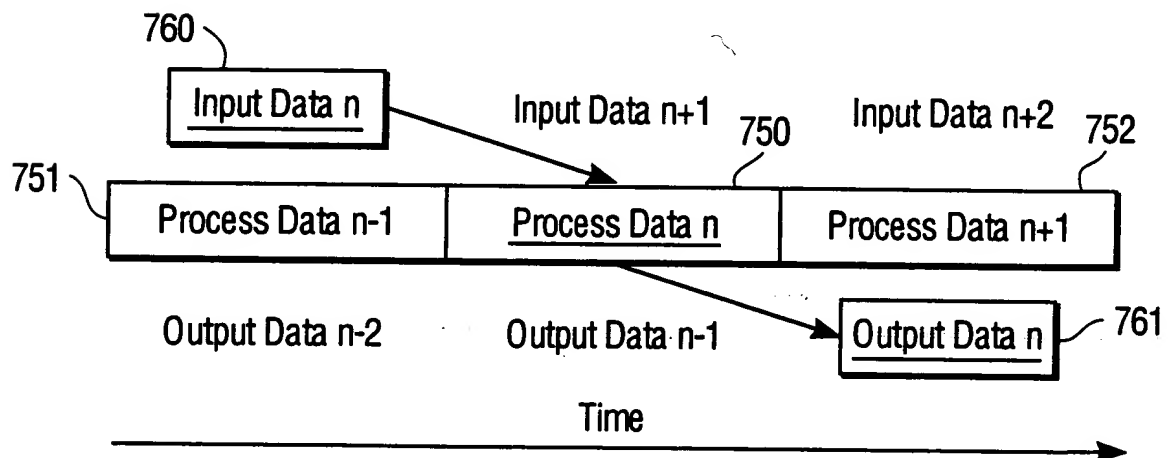


FIG. 7b



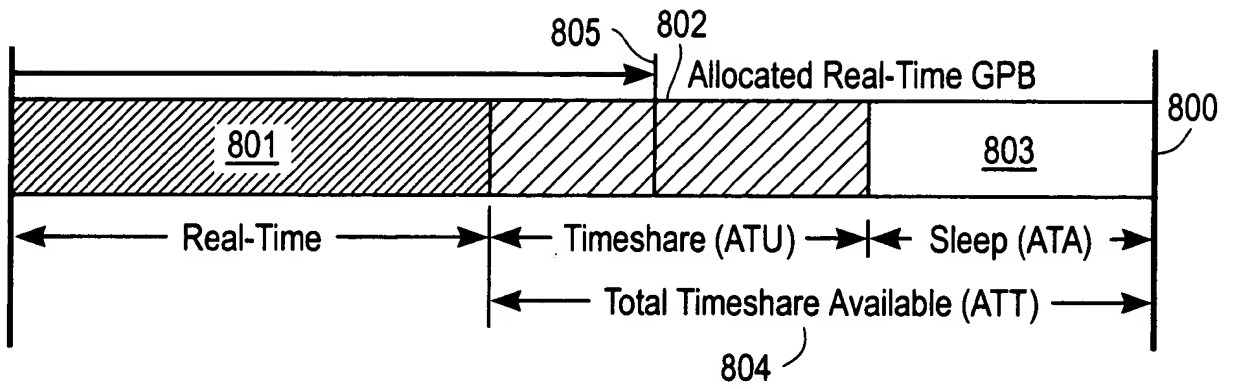


FIG. 8





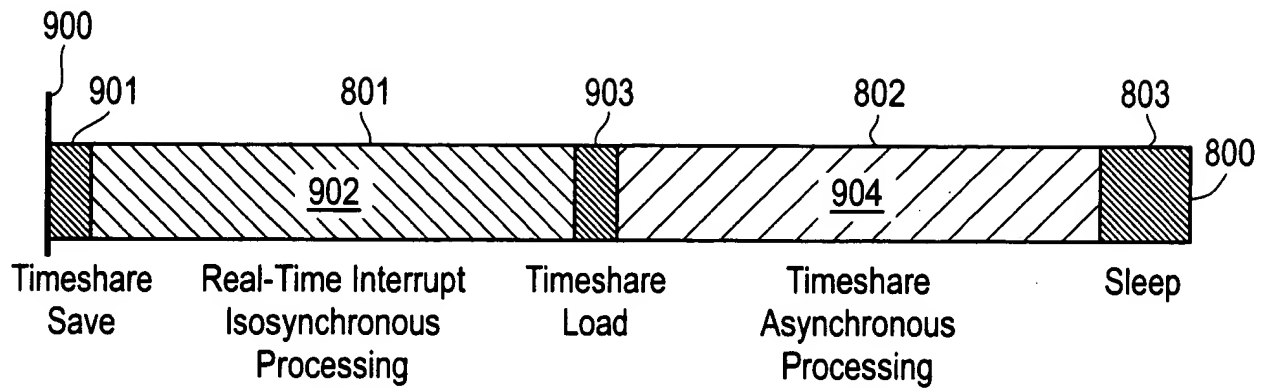


FIG. 9



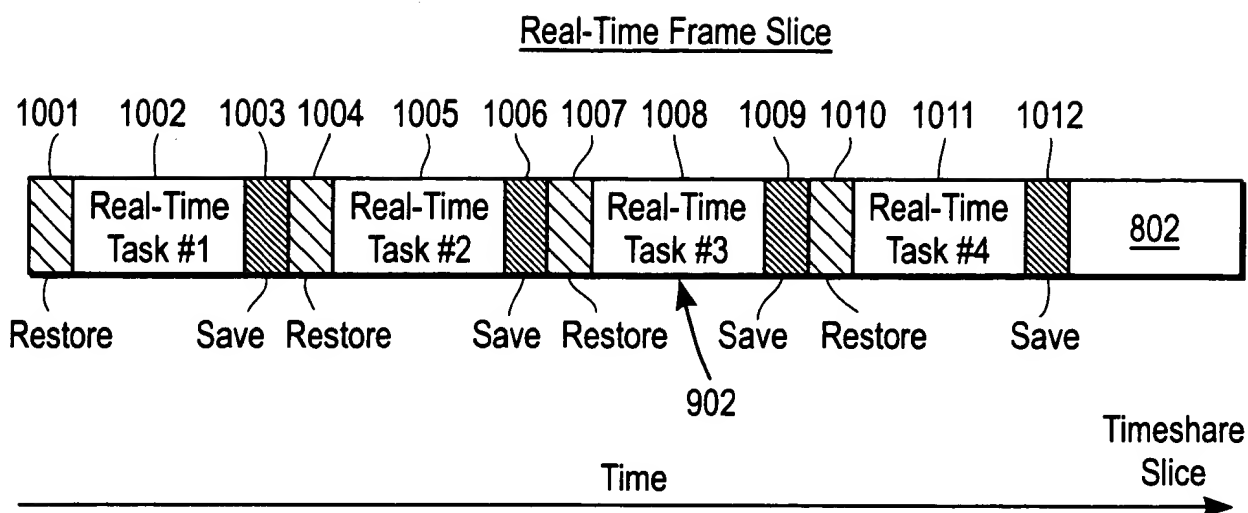


FIG. 10





Frame-Based  
Real-Time/Timeshare Task  
Processing  
1100

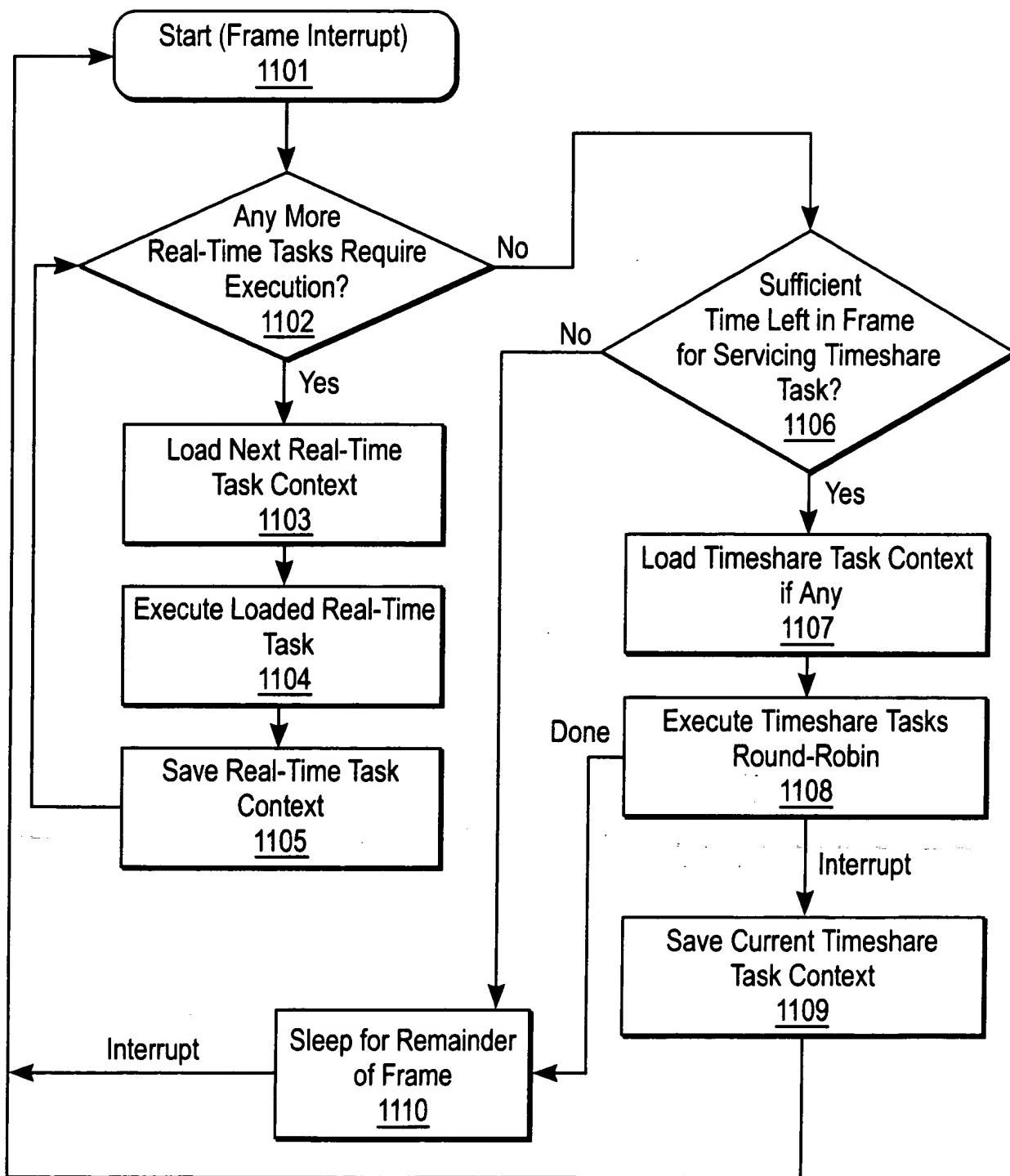
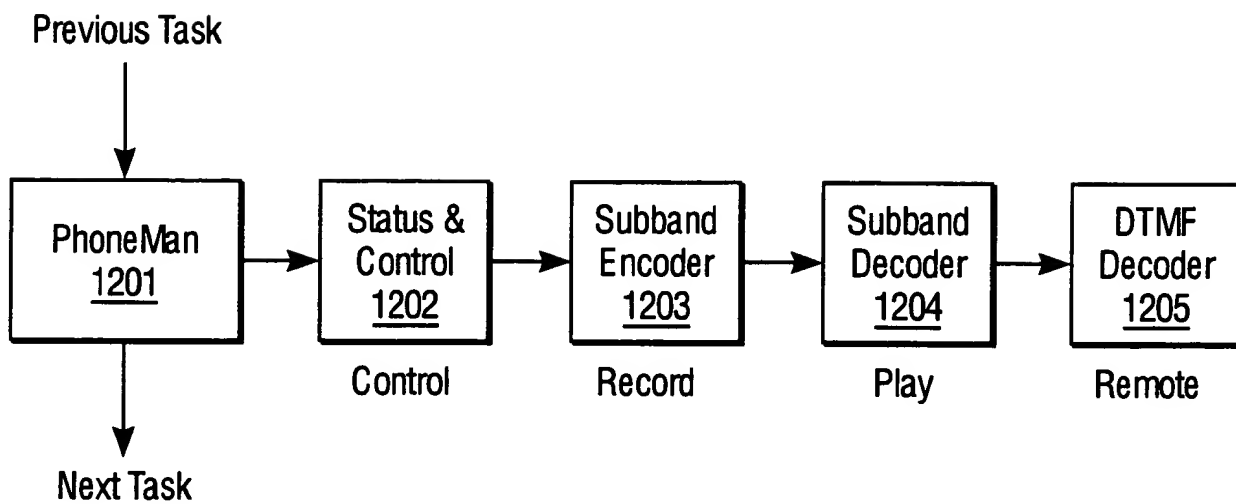


FIG. 11





**"PhoneMan" Task**  
**(Phone Answering Machine)**  
**1200**



**FIG. 12**



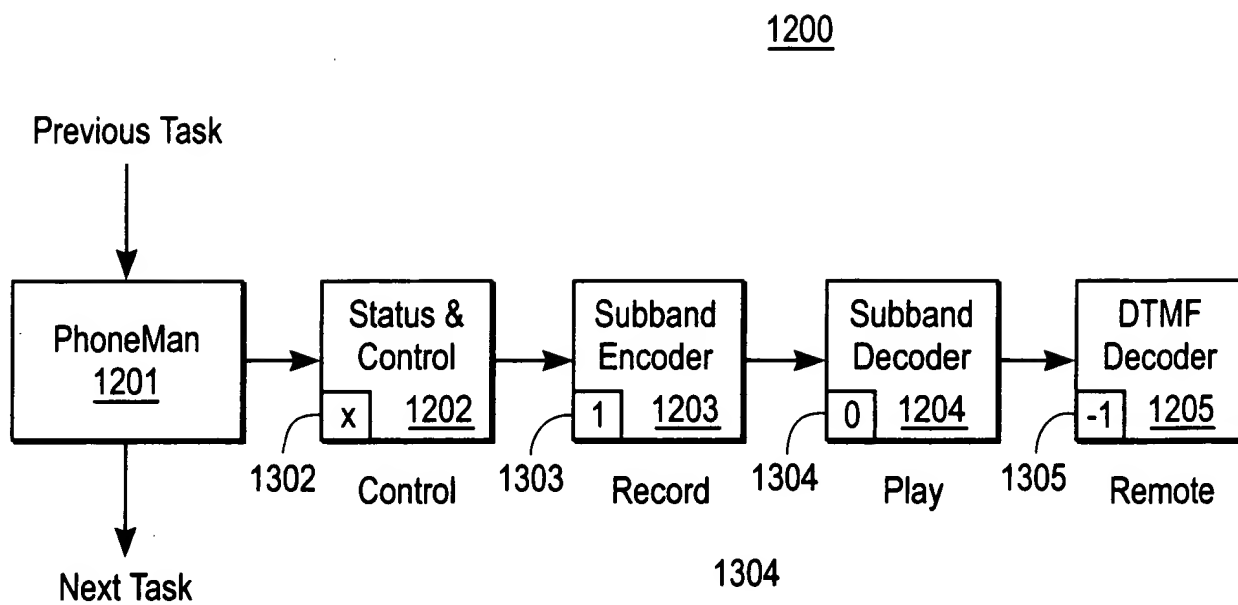
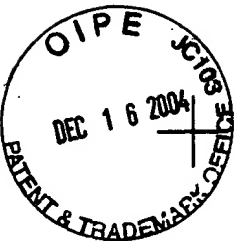
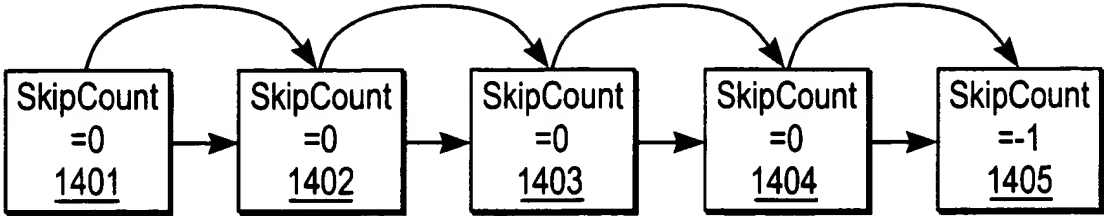


FIG. 13

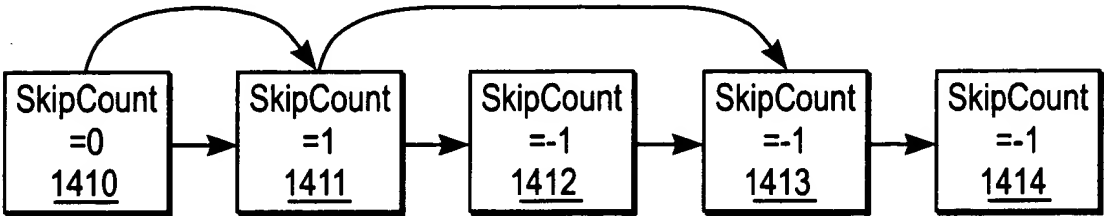


Execution Flow



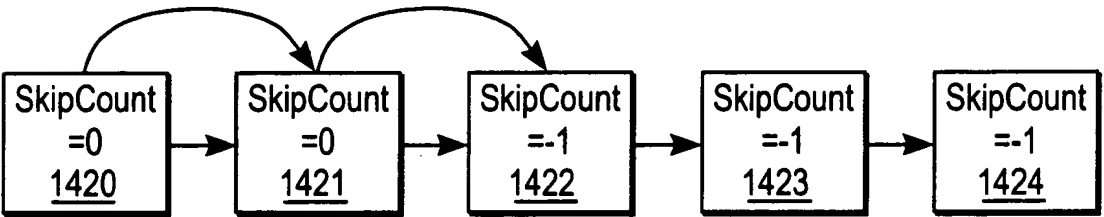
Execution Path: 1401, 1402, 1403, 1404, 1405

FIG. 14a



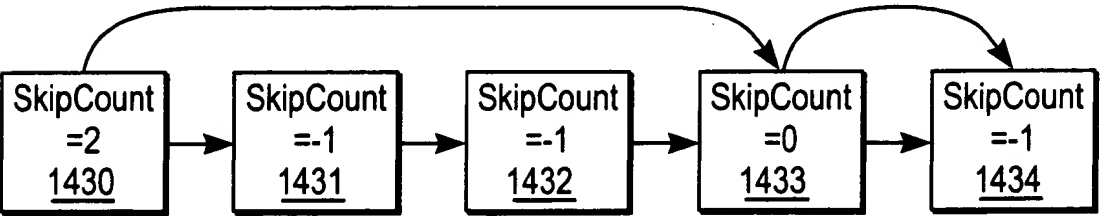
Execution Path: 1410, 1411, 1413

FIG. 14b



Execution Path: 1420, 1421, 1422

FIG. 14c



Execution Path: 1430, 1433, 1434

FIG. 14d





Task Synchronization Setup  
1500

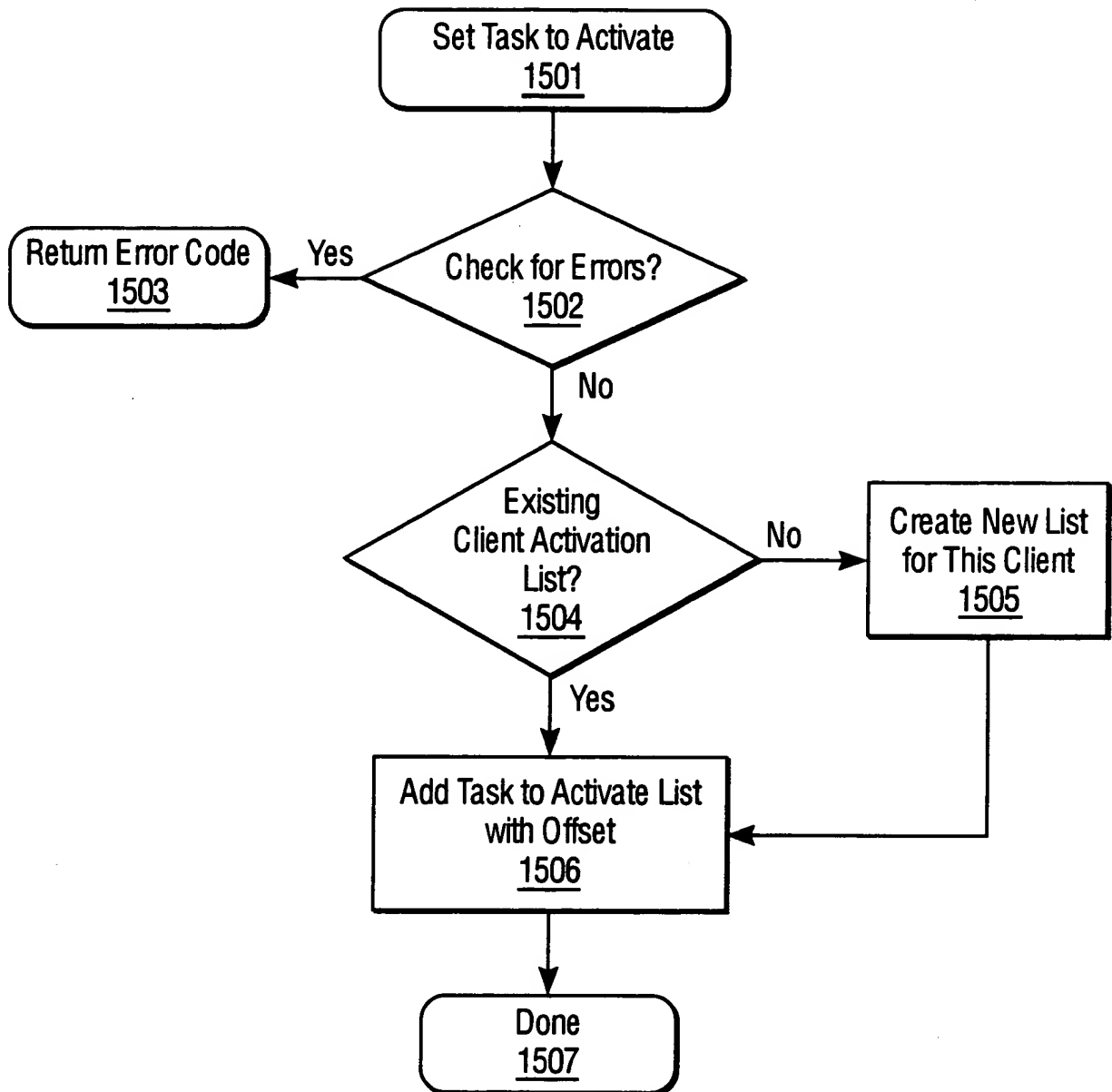


FIG. 15



Flag Tasks for Synchronization  
1600

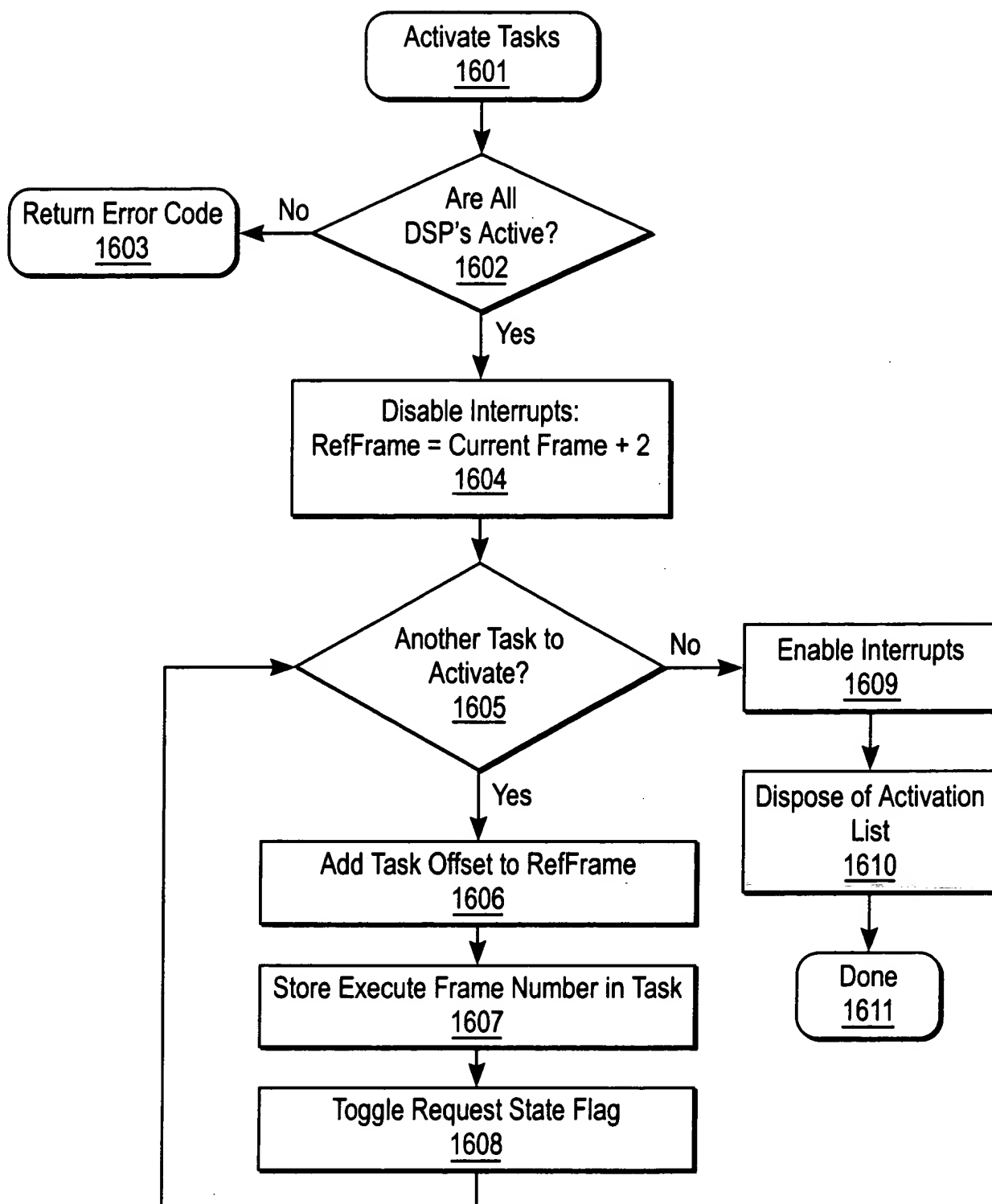


FIG. 16







Task Activation/Deactivation  
by DSP Kernel  
1700

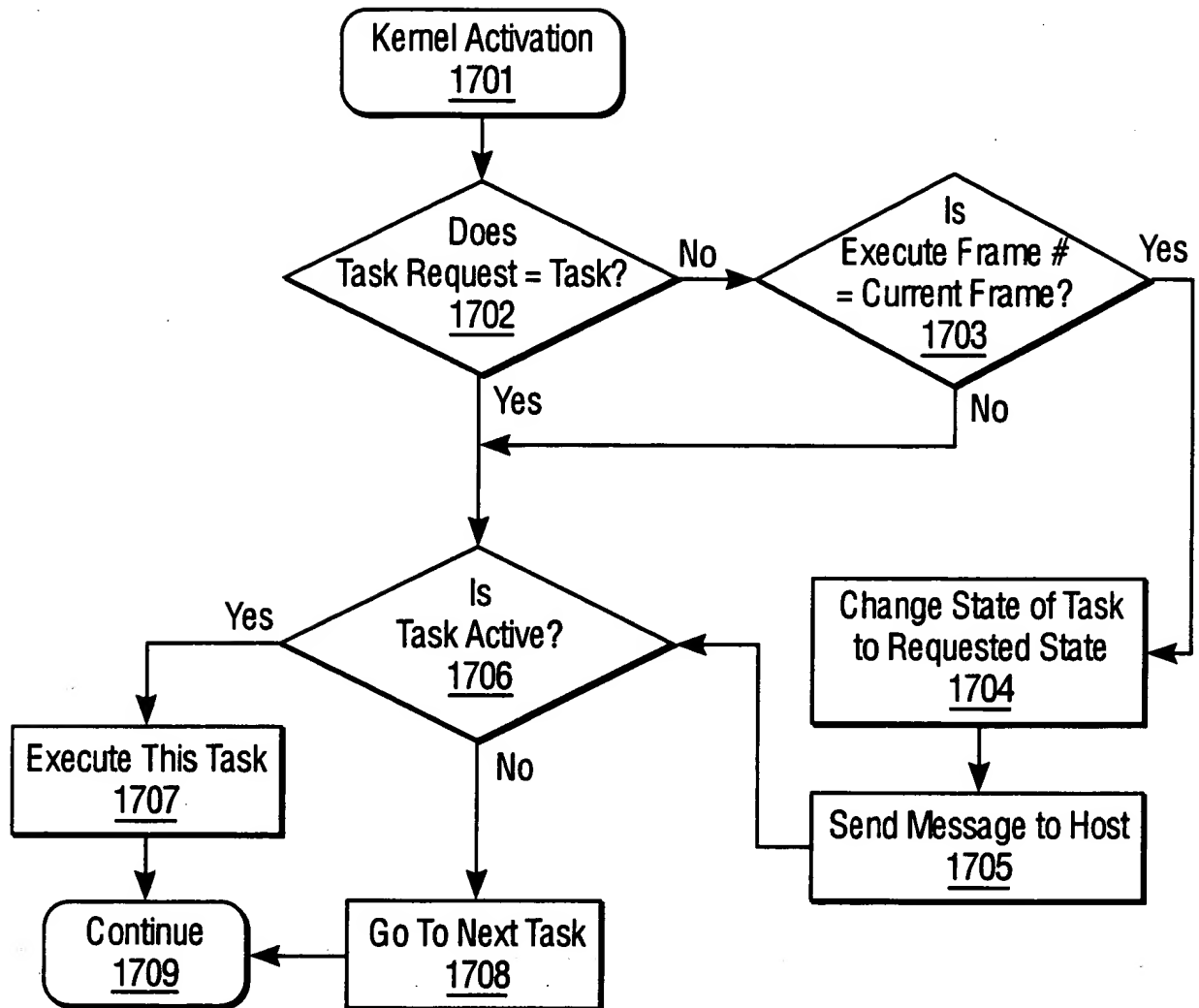


FIG. 17



Simultaneous Task  
Activation/Deactivation  
1800

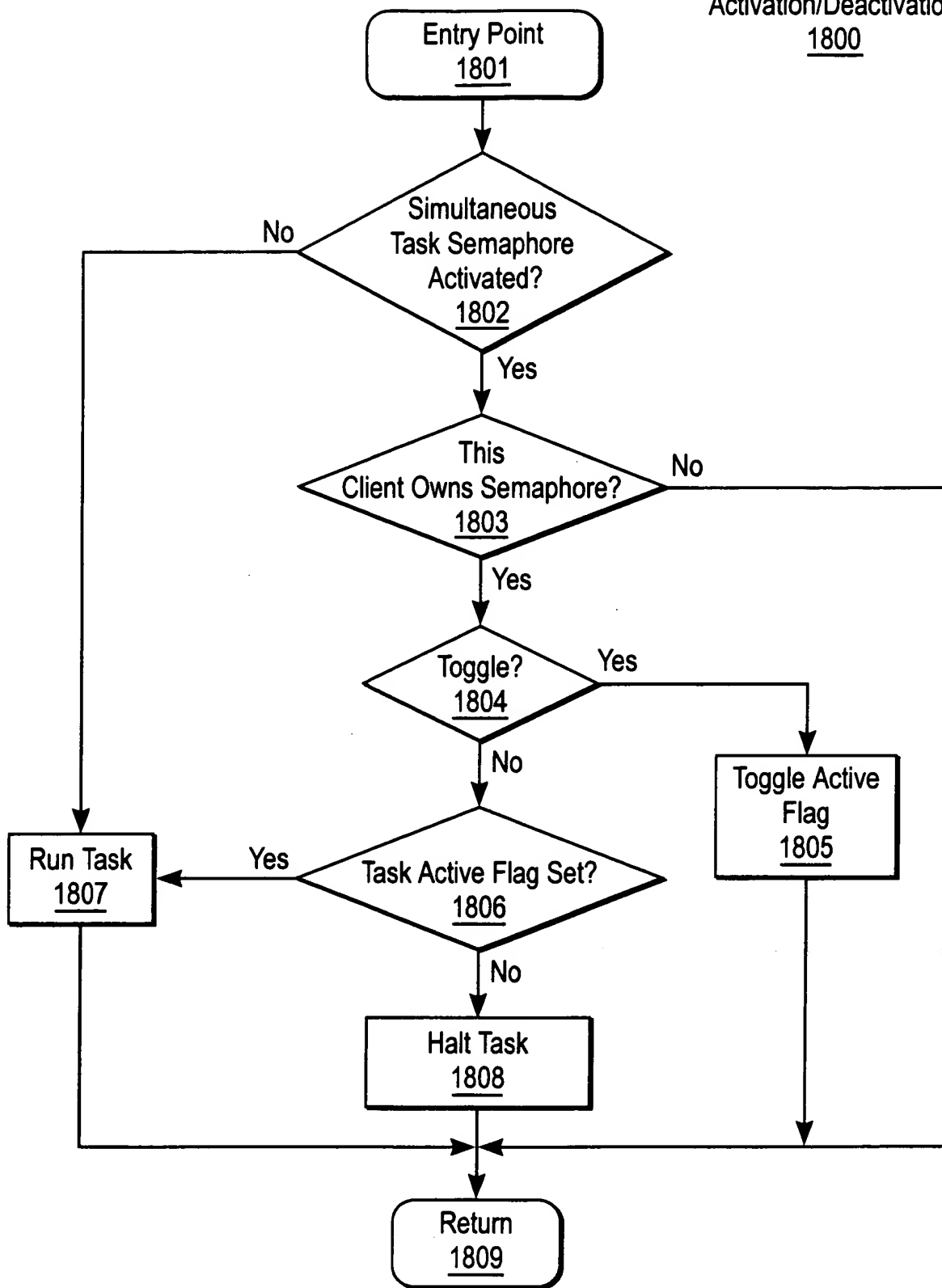


FIG. 18